CareFusion

Installation Instructions SentrySuite®

V-781300-213
Version 01.00
for SentrySuite® Software ≥ 2.13
English

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Alterations and Revisions

In case of a new edition the manual is completely revised. Modification sheets, if necessary, will be issued with additional information. The version number on the front page will only change if a new edition is published. Minor corrections which do not have any influence on the functionality of the product might be included in a reprint without changing the version number.

For many product improvements it is not necessary to modify the manual. On the other hand, corrections in the manual can be made without changing the product. Therefore, the version number of the product often differs from the version number of the manual.

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CE 0123

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Symbols for Notes on Safety in Instructions for Use and Installation Instructions

Following the **ANSI** recommendations (American National Standards Institute) for safety notes, specific passages of the instruction manual are clearly marked as safety notes.

Degree of Danger	Injury to Persons	Damage to Property	Use in case of:
DANGER	X		**DANGER** indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations.
WARNING	X		**WARNING** indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
CAUTION	X	(X)	**CAUTION** indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

Additional icons shown in the instruction manual:

	X	X	See instruction manual and documents delivered with the equipment.
			Important and useful information. Information does not warn of dangerous or harmful situations.
			Hints for use.

System Requirements

Certain prerequisites have to be fulfilled to ensure proper functioning of the SentrySuite software*. Accessory equipment connected to the analog and digital interfaces must be certified according to the respective IEC standards (e.g. IEC 60950 for data processing equipment and IEC 60601-1 for medical electronic equipment). Additional equipment connected to medical electrical equipment must comply with the respective EN (IEC) or ISO standards (e.g. EN 60950 for data processing equipment). Furthermore all configurations shall comply with the requirements for medical electrical systems ((section 16 of the 3rd ed. of EN 60601-1). Anybody connecting additional equipment to medical electrical equipment configures a medical system and is therefore responsible that the system complies with the requirements for medical electrical systems. Attention is drawn to the fact that local laws take priority over the above mentioned requirements. If in doubt, consult your local representative or the CareFusion Global Customer Support.

Please check the system requirements prior to installation.

Minimum requirements:

- PC or Notebook with Dual Core™ with a minimum of 2.0 GHz clock speed
- 3 GB RAM main memory for 32 bit; 4 GB RAM main memory for 64 bit
- 100 GB hard disk
- DVD-ROM drive
- Graphics card and monitor with a resolution of 1280 x 900 pixels, True Color (24/32 bit)
- Network interface card with 100 Mbits/s or minimum 150 Mbits/s with WLAN (if networking is desired)

Recommended requirements:

- PC or Notebook with QuadCore processor with min. 2.8 GHz clock speed
- Minimum 4 GB RAM main memory for 32 bit; minimum 8 GB RAM main memory for 64 bit
- 320 GB SSD-hard disk
- DVD-RW drive
- Graphics card with a resolution of at least 1280 x 1024 pixels, True Color (24/32 Bit)
- Monitor with a resolution of at least 1280 x 1024 pixels
- Network interface card with 1000 Mbits/s or minimum 150 Mbits/s with WLAN (if networking is desired)

Necessary interfaces:

- 1 free USB 2.0 interface for each Vyntus PNEUMO, Vyntus IOS, Vyntus APS, Vyntus SPIRO, Vyntus CPX, MasterScope Body, CardioSoft ECG, Tango M2
- 1 free serial interface RS 232 or 1 free USB 2.0 interface for each MasterScreen Pneumo/IOS/APS pro, Bicycle ergometer, treadmill
- 1 free PS/2 interface or 1 free USB 2.0 interface (for MasterScreen Pneumo, unheated)
- 1 free PCIe interface for MasterScreen PFT/MasterScreen Body/Diffusion

Additional requirements:

- User interface Microsoft® Windows® 7 Professional, 32 bit with Service Pack 1 or Microsoft® Windows® 7 Professional/Ultimate/Enterprise, 64 bit with Service Pack 1
- Keyboard, mouse or trackball, printer

**To install software, Windows® administrator rights are required.
The user name must not contain spaces. If the user name contains spaces, do not change the user name but create a new user instead.**

Please note that Microsoft® Windows® 7 has to be installed prior to the installation of the SentrySuite software.

To ensure software integrity, all automatic software updates (such as, for example, Microsoft® Windows®) should be deactivated.

Please change the "Power Options" of your computer so that there is no change into the sleep mode. The "Power Options" can be found in the "Control Panel". Change the setting "Put the computer to sleep" to "Never" and respectively in the "Advanced Settings" under "Sleep" and "Sleep after" to "Never".

**The computer should automatically boot up when a power source is switched on or the main switch is turned on. If a Dell Optiplex XE is used, boot up the computer and press F12. In the BIOS, select „System Setup", „Power Management" and „AC Recovery".
Click on „Power On", and select „Apply" and „Exit".**

In a network setup SentrySuite requires a network connection to the central data service. SentrySuite devices used in locations like intensive care units or emergency rooms which need to be available offline must be installed as stand-alone systems.

* CareFusion has only validated the device with computers using certain features and hence cannot warrant that any computer with a Microsoft® Windows® 7 will work properly. For additional information please contact your local representative or the CareFusion Global Customer Support.

Installation of the SentrySuite® Software

Prior to installing the software, the measuring system has to be connected to the PC or notebook. The measuring system must be switched on.

At a report or view station (without measuring system) the USB dongle has to be connected to a free USB port.

The system requirements listed on the previous page must be met. In addition, the SentrySuite license code and the SentrySuite validation code are required.

How to install the SentrySuite® Software

If the USB-RS232 adapter is used (e.g. with the MasterScreen Pneumo, MasterScreen IOS, APS SA), connect the adapter to a free USB port. Windows® will automatically try to install the appropriate driver.

Insert the USB-RS232 adapter software CD and follow the on-screen instructions. (The CD is included in the delivery package of the USB-RS232 adapter.)

If an EASI-PCIe card is used which is integrated in the PC, and required for Master-Screen PFT for example, the card driver must be installed prior to the installation of the SentrySuite software. See Installation Instructions "MasterScreen".

The SentrySuite software is provided on one Installation DVD.

Insert the SentrySuite Software DVD into the DVD drive.

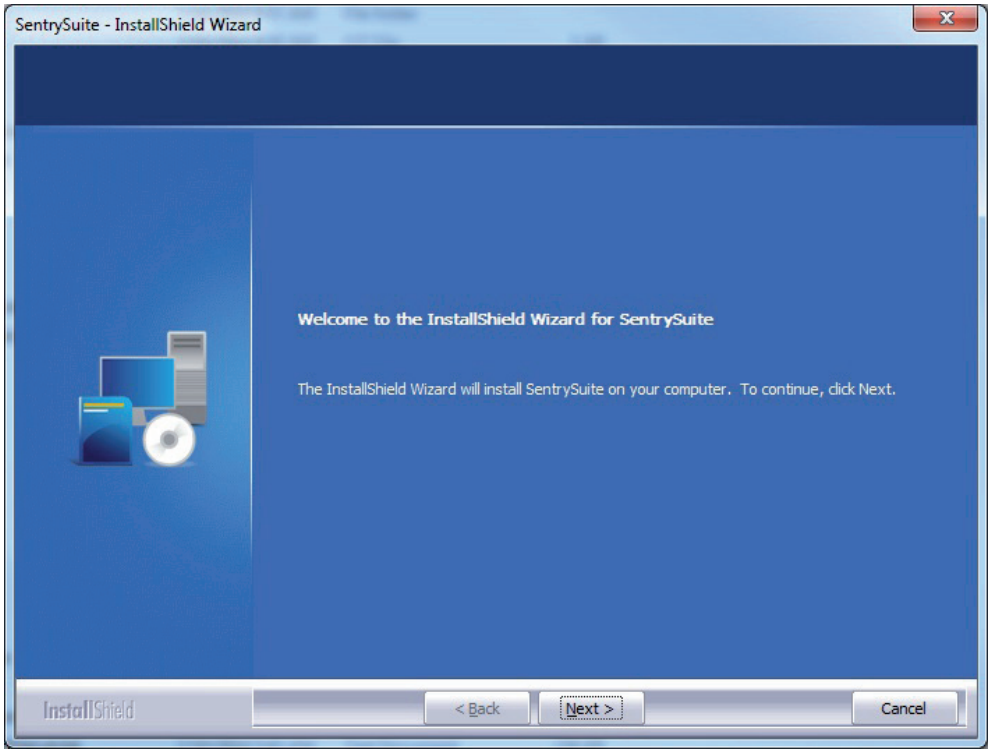
Start the installation process by double-clicking the **Setup.exe** program.

Procedure:

1. Select the "**Windows Explorer**" icon on the Windows® desktop and click on "**Computer**".
2. Click the **DVD drive** in the respective window and start the"**Setup.exe**" program.

To install the SentrySuite software, follow the instructions as they appear on the screen. They will guide you through the installation process.

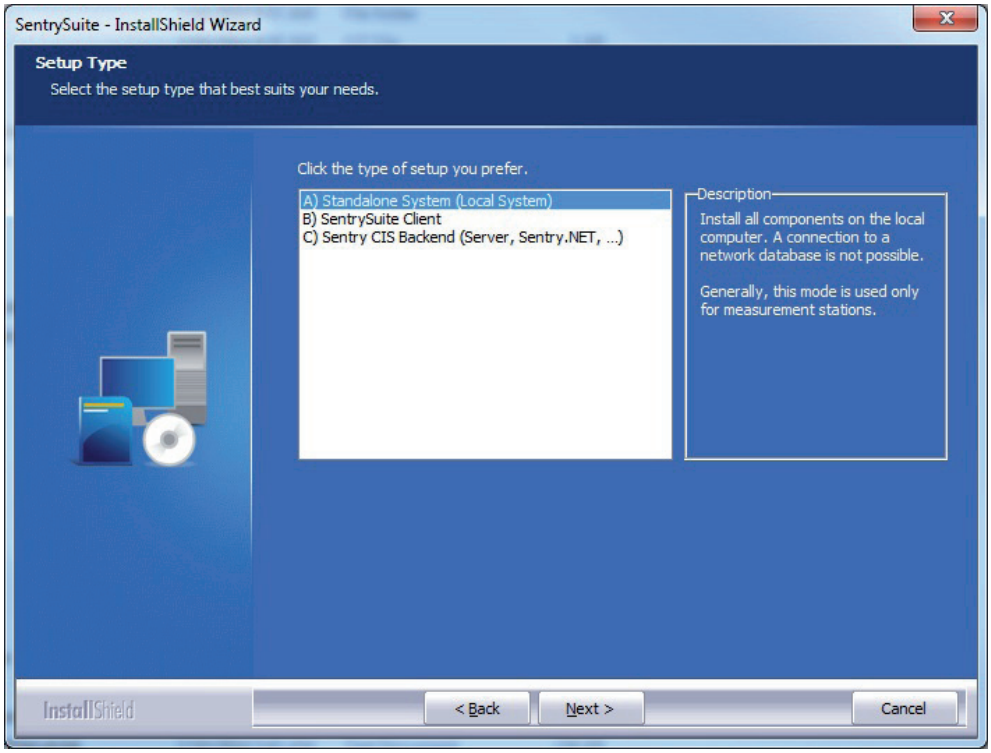
The following screen will be displayed automatically:


SentrySuite - InstallShield Wizard
Welcome to the InstallShield Wizard for SentrySuite
The InstallShield Wizard will install SentrySuite on your computer. To continue, click Next.
InstallShield
< Back
Next >
Cancel

Continue with <**Next>**>.

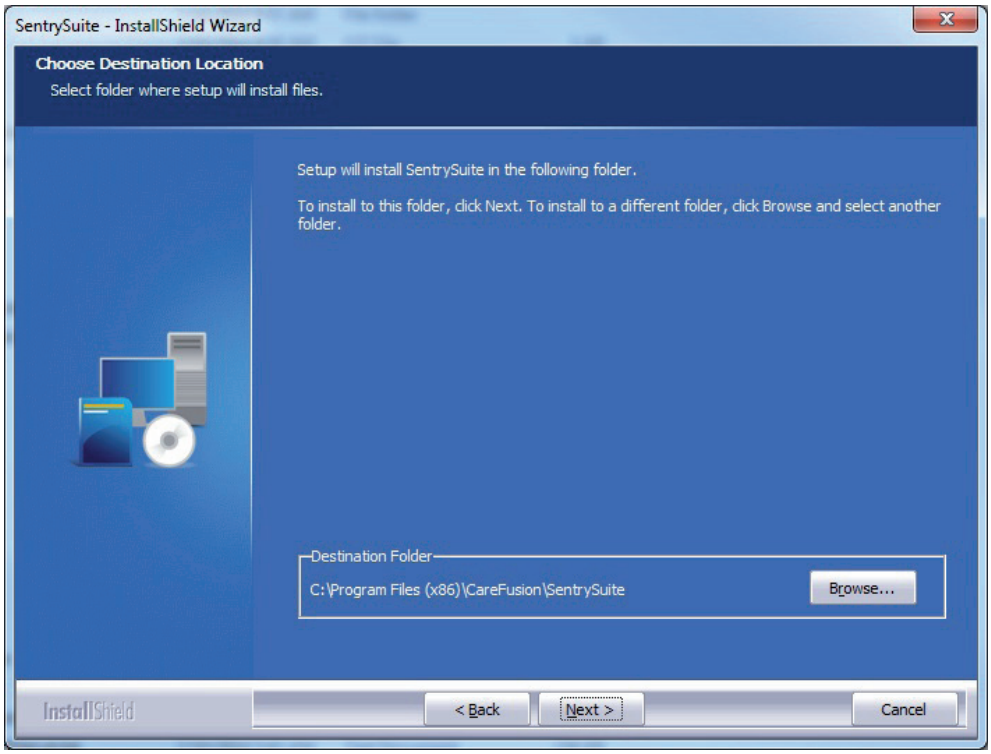
In the following screen, the license code must be entered.

In this installation instruction, type "**A) Standalone System (Local System)**" is described. The installation of type B (Client) and type C (Backend) is described in the Service Manual.

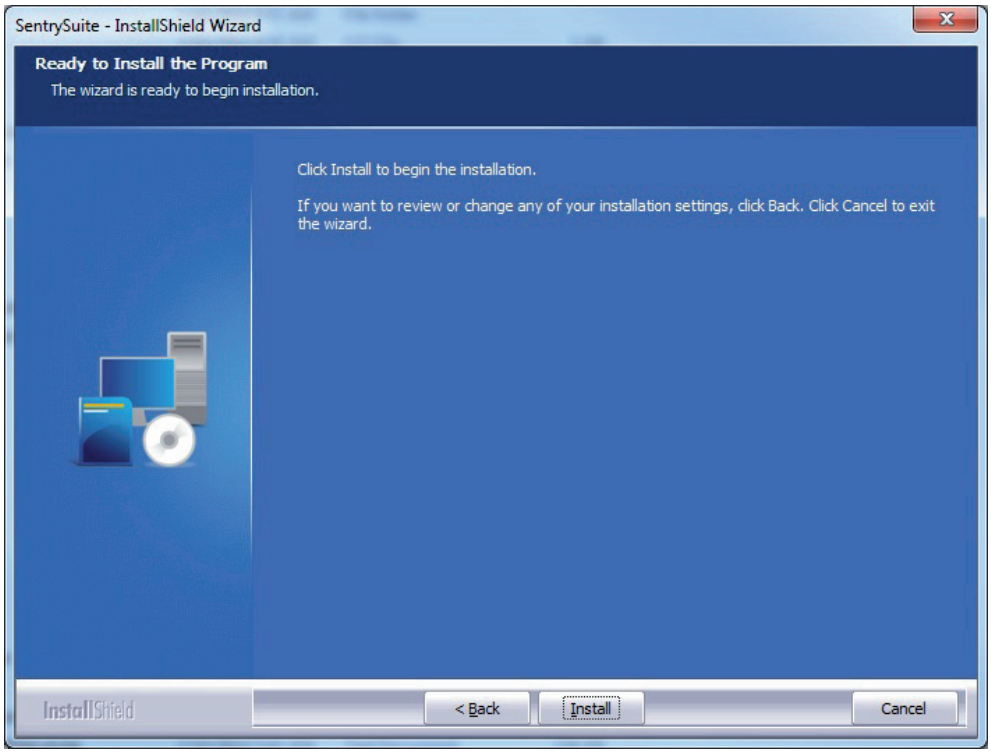

SentrySuite - InstallShield Wizard
Setup Type
Select the setup type that best suits your needs.
Click the type of setup you prefer.
A) Standalone System (Local System)
B) SentrySuite Client
C) Sentry CIS Backend (Server, Sentry.NET, ...)
Description
Install all components on the local computer. A connection to a network database is not possible.
Generally, this mode is used only for measurement stations.
InstallShield
< Back
Next >
Cancel

Continue with <**Next>**>.

In addition, a message appears indicating that the SentrySuite software will be installed in the recommended destination folder "**C:\Program files (x86)\CareFusion\SentrySuite**". For installation in a different folder, select (Browse...) and choose a different destination.

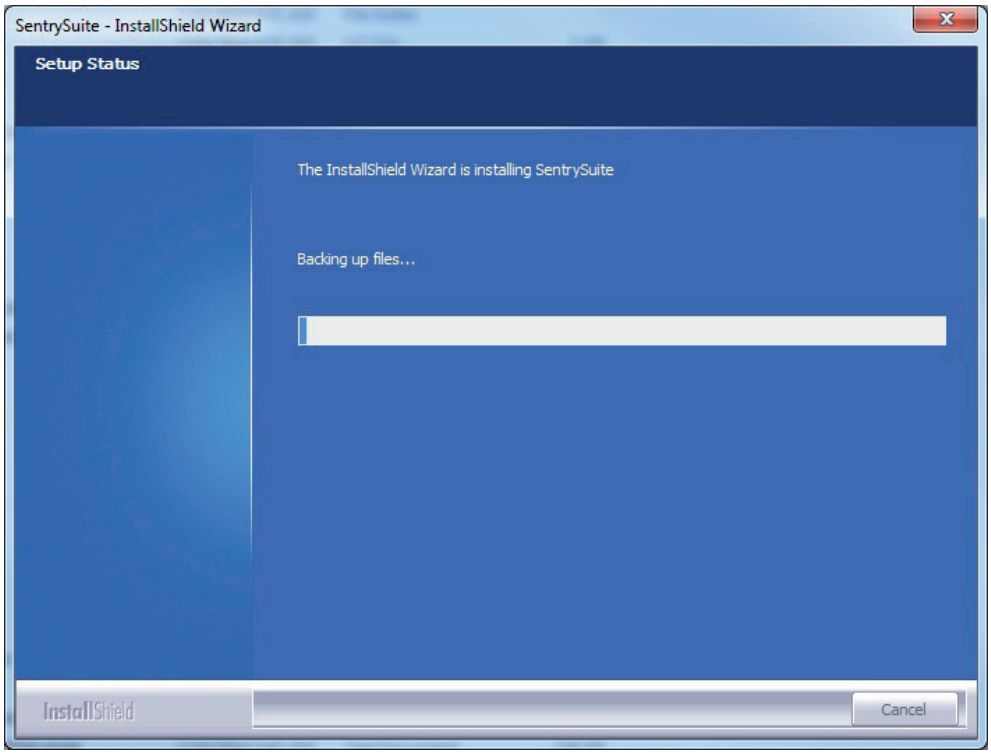

SentrySuite - InstallShield Wizard
Choose Destination Location
Select folder where setup will install files.
Setup will install SentrySuite in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files (x86)\CareFusion\SentrySuite
Browse...
InstallShield
< Back
Next >
Cancel

Continue with <**Next>**>.

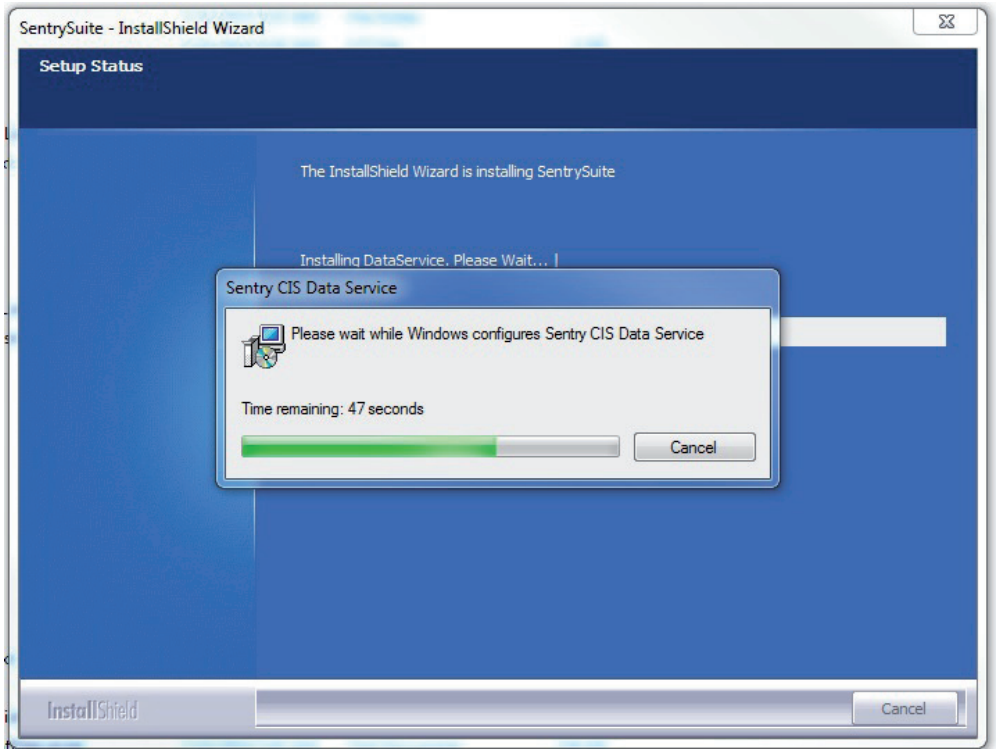

SentrySuite - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

Click <**Install**> to install the previously selected settings.

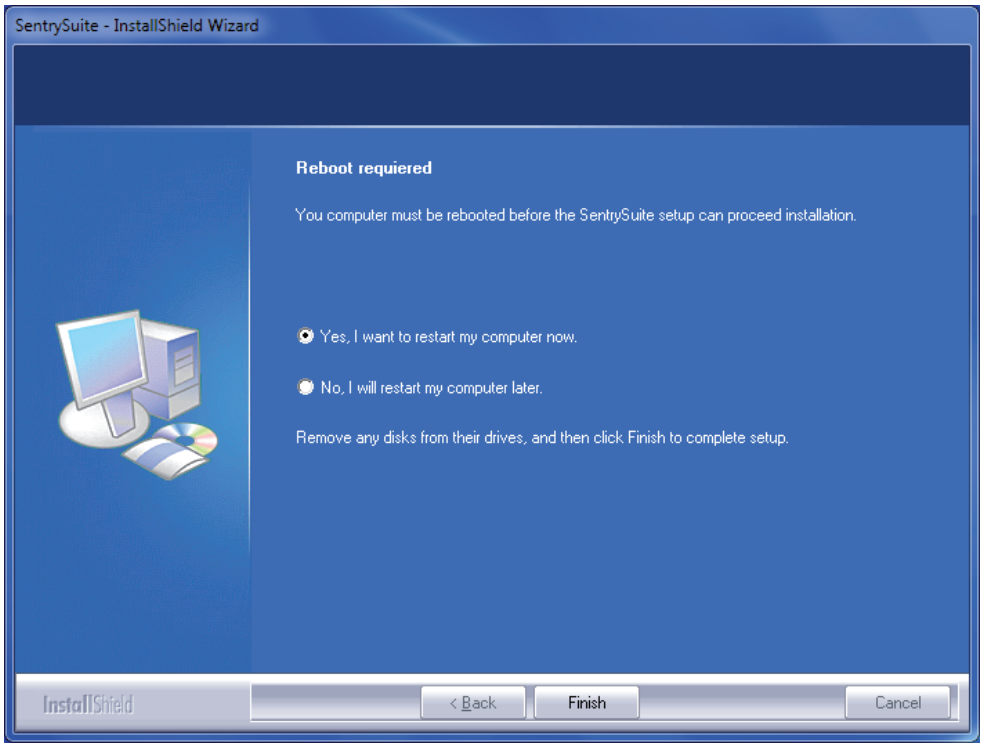
Screen display during installation:



Screen display during installation:



Several windows pop up during the installation process. It is not necessary for the user to interact here.


SentrySuite - InstallShield Wizard
Reboot requiered
You computer must be rebooted before the SentrySuite setup can proceed installation.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
InstallShield
< Back
Finish
Cancel

Now, the computer has to be restarted.

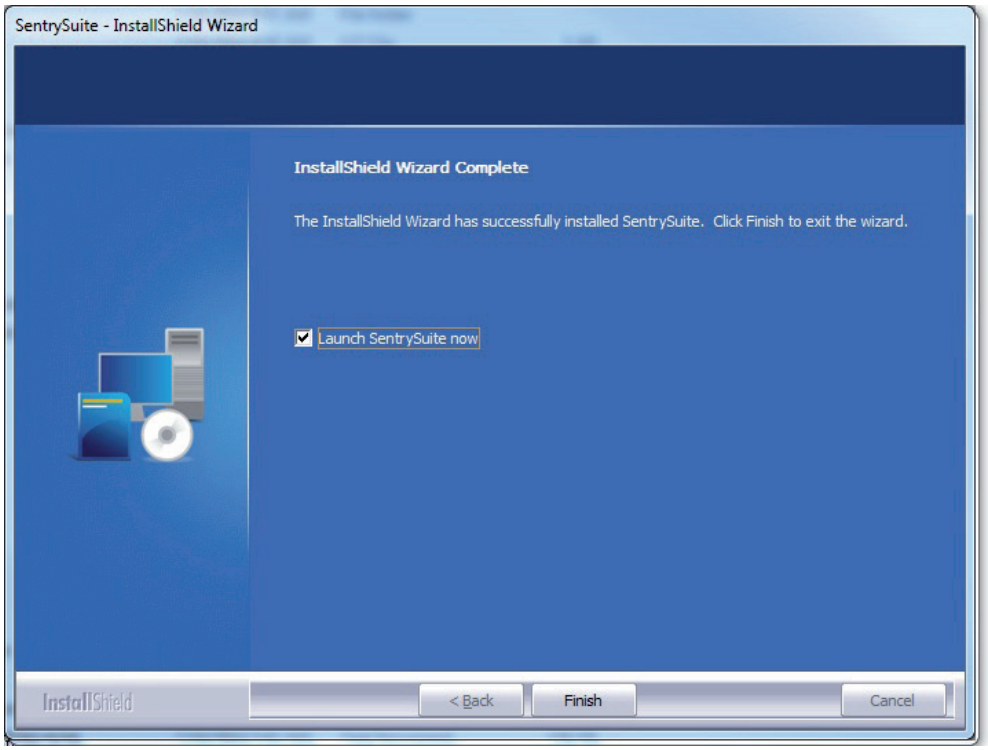
Please DO NOT CHANGE the settings.

Click <**Finish**> to shut down and restart the PC.

After the restart the Windows® desktop is shown.

Depending on the type of PC and the existing system configuration it may be necessary to restart the PC several times and after that to also restart the SentrySuite installation procedure.

When the installation is complete, the following screen is displayed:



Finish

Click <**Finish**> to finish the installation process.

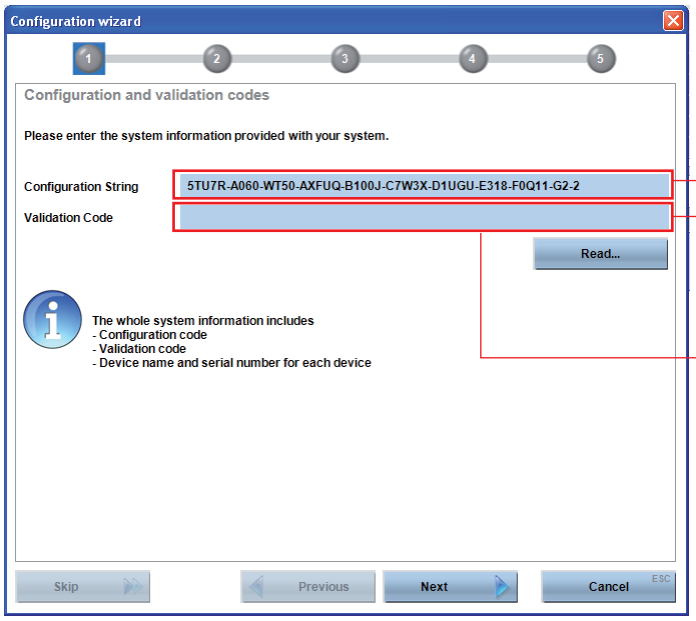
The initial configuration is automatically displayed.

Initial Configuration

The initial configuration wizard will check the connected hardware modules.

If the initial configuration is omitted, the software validity will be limited to 90 days.

The following screen will be displayed:



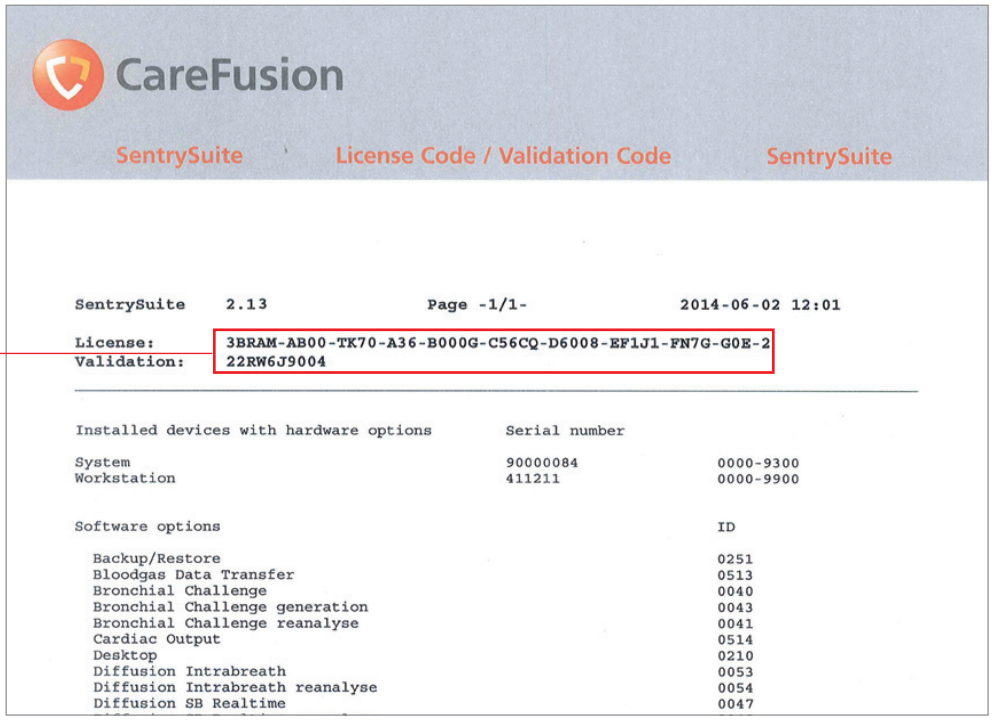
Configuration String

Validation Code

Enter the required validation code in the field "**Validation Code**" and "**Configuration String**".

The "**configurations String**" and "**validation code**" is provided with your system. Here, "License" equates "configurations String" while "Validation" equates "Validation code".

Please enter exactly as indicated.
Please note that the license code is case-sensitive.


CareFusion

SentrySuite License Code / Validation Code SentrySuite

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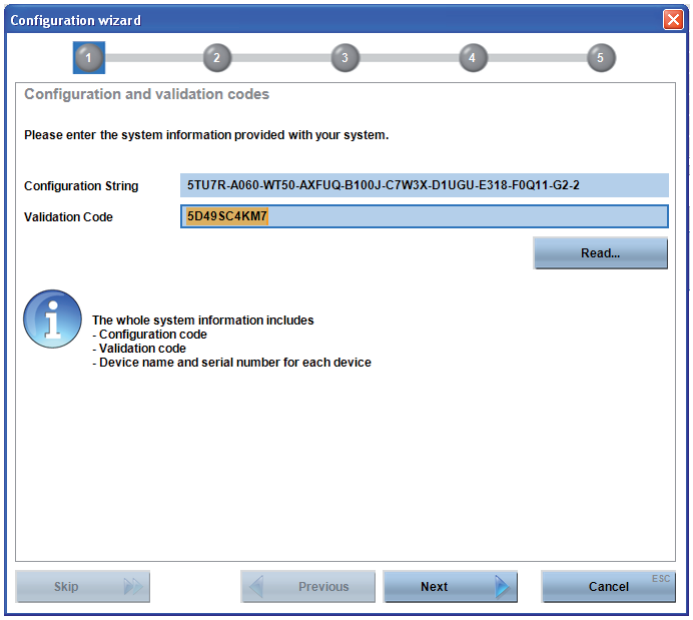
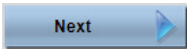
License: 3BRAM-AB00-TK70-A36-B000G-C56CQ-D6008-EF1J1-FN7G-G0E-2
Validation: 22RW6J9004

Installed devices with hardware options	Serial number	
System	90000084	0000-9300
Workstation	411211	0000-9900

Software options	ID
Backup/Restore	0251
Bloodgas Data Transfer	0513
Bronchial Challenge	0040
Bronchial Challenge generation	0043
Bronchial Challenge reanalyse	0041
Cardiac Output	0514
Desktop	0210
Diffusion Intrabreath	0053
Diffusion Intrabreath reanalyse	0054
Diffusion SB Realtime	0047

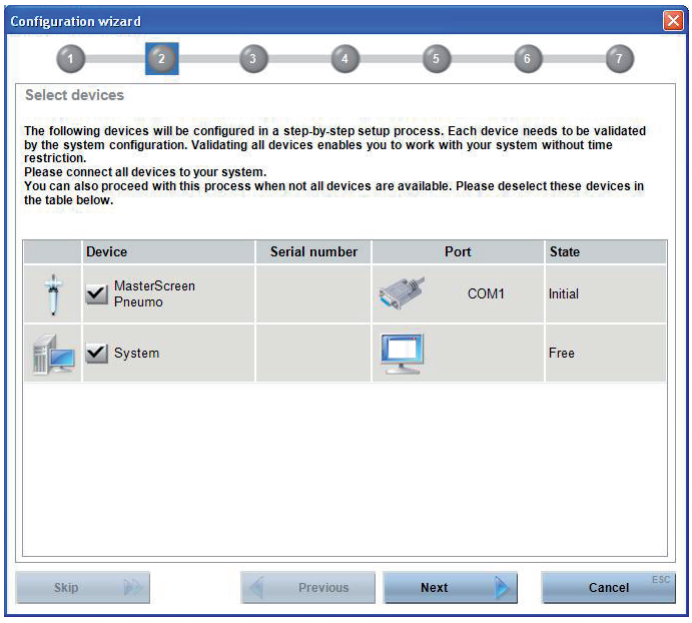


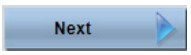


Continue with <**Next >**>.

Now, the following features will be checked in a step-by-step process:
- Interfaces
- Serial numbers of the devices
- Corresponding hardware

Confirm every step by clicking <**Next >**>.



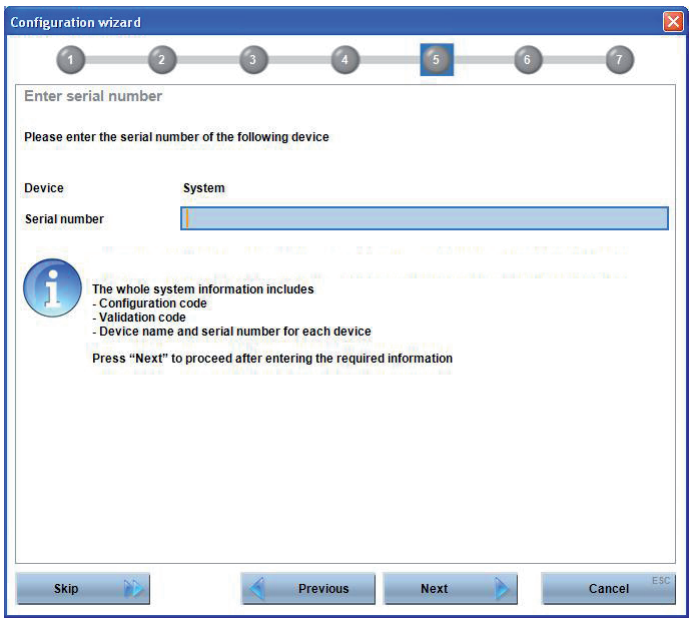


Continue with <**Next >**>.

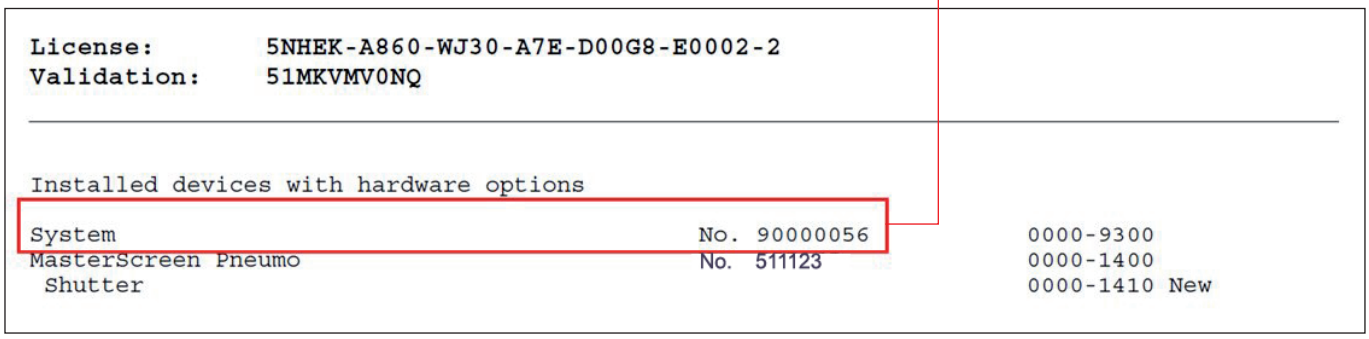
In the following windows the system serial numbers are requested. There are at least two different serial numbers which can be found in the delivered license/validation code sheet.

- **System serial number**. In our example “90000056“
- **Serial number of the device**, e.g. **MasterScreen Pneumo**. In our example “511123“

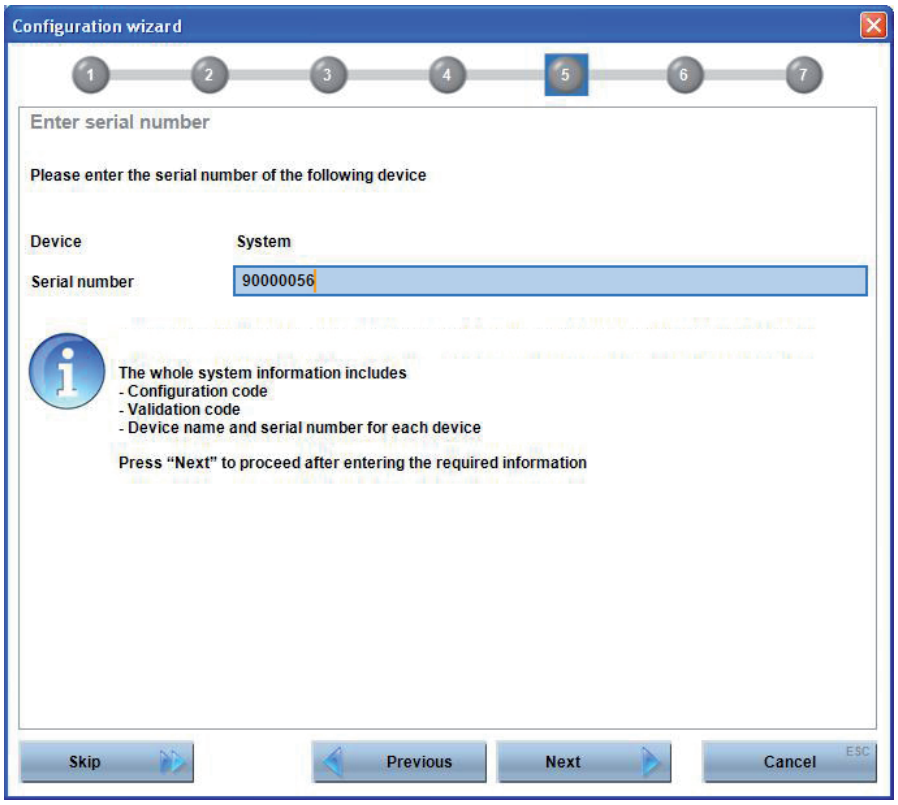
A window appears for entering the system serial number:

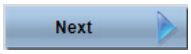


The system serial number can be found in the delivered documents.



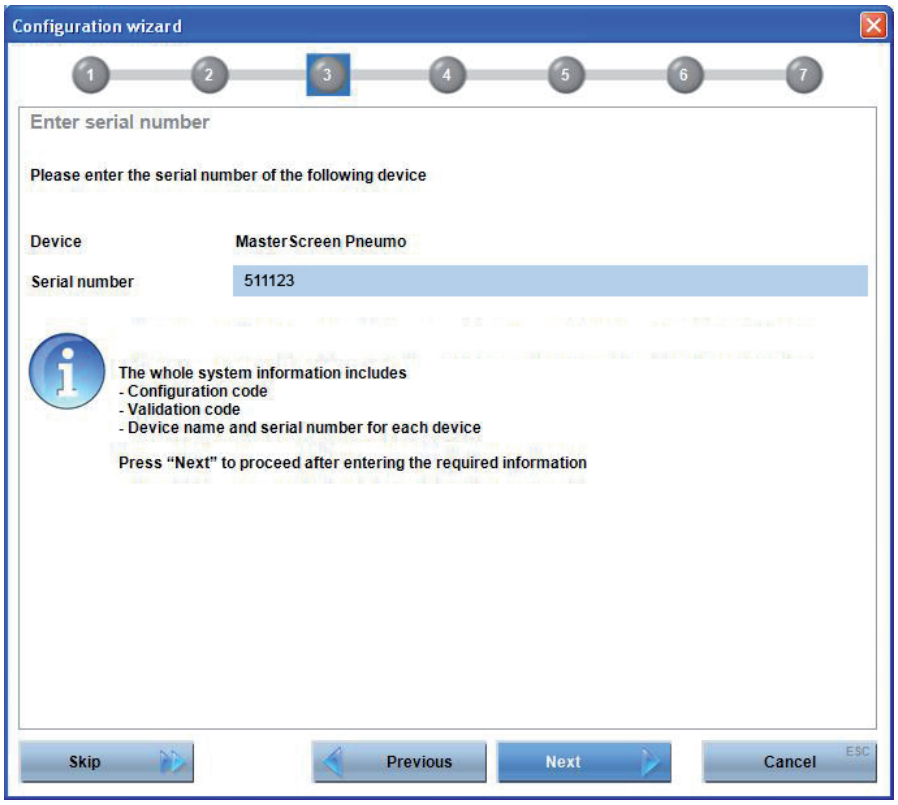
Screen display after the serial number was entered:



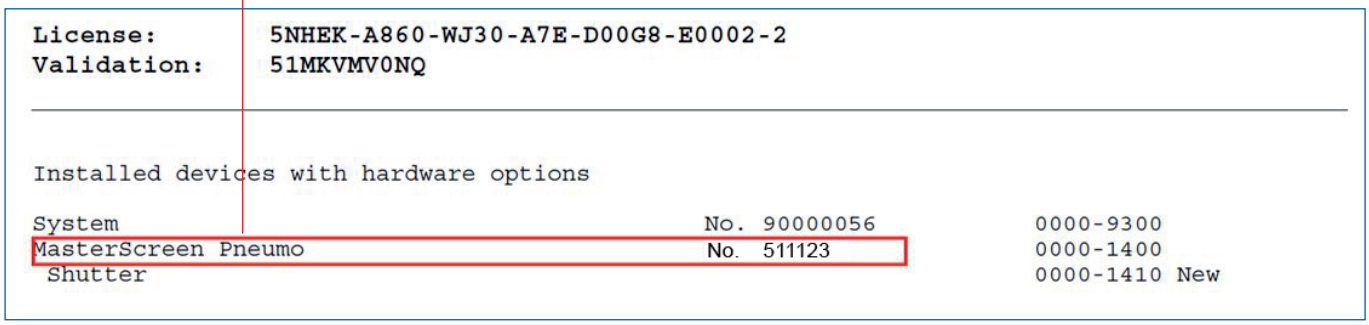


Click <**Next**>.

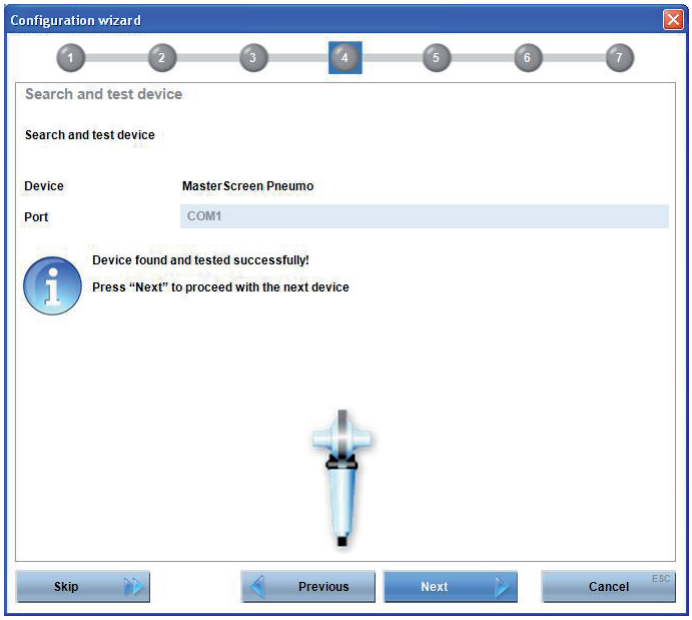
Once the window for entering the MasterScreen serial number appears, it should not be necessary to enter this number. The software should read it automatically.

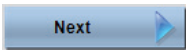


If the serial number is not displayed automatically, it has to be entered manually via the keyboard.



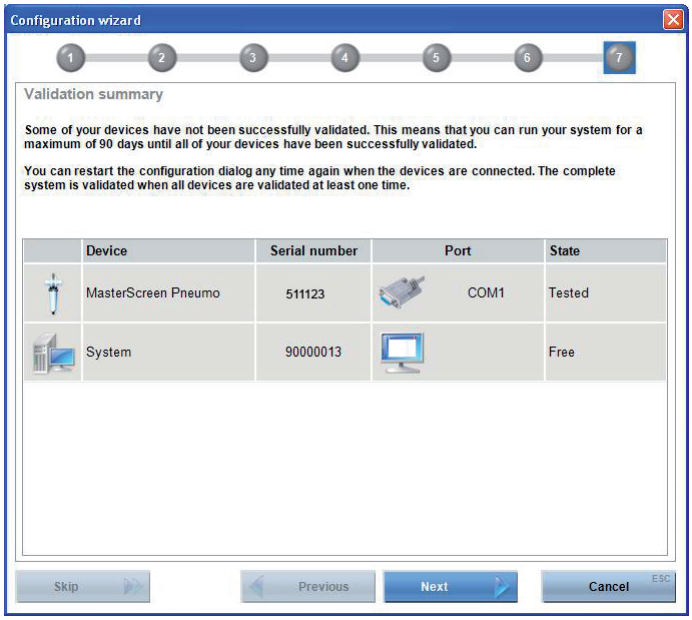
The following prompt is displayed:
"**Device found and tested successfully!**"

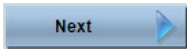




Continue with <**Next >>**.

At the end of the initial configuration a validation summary will be displayed.





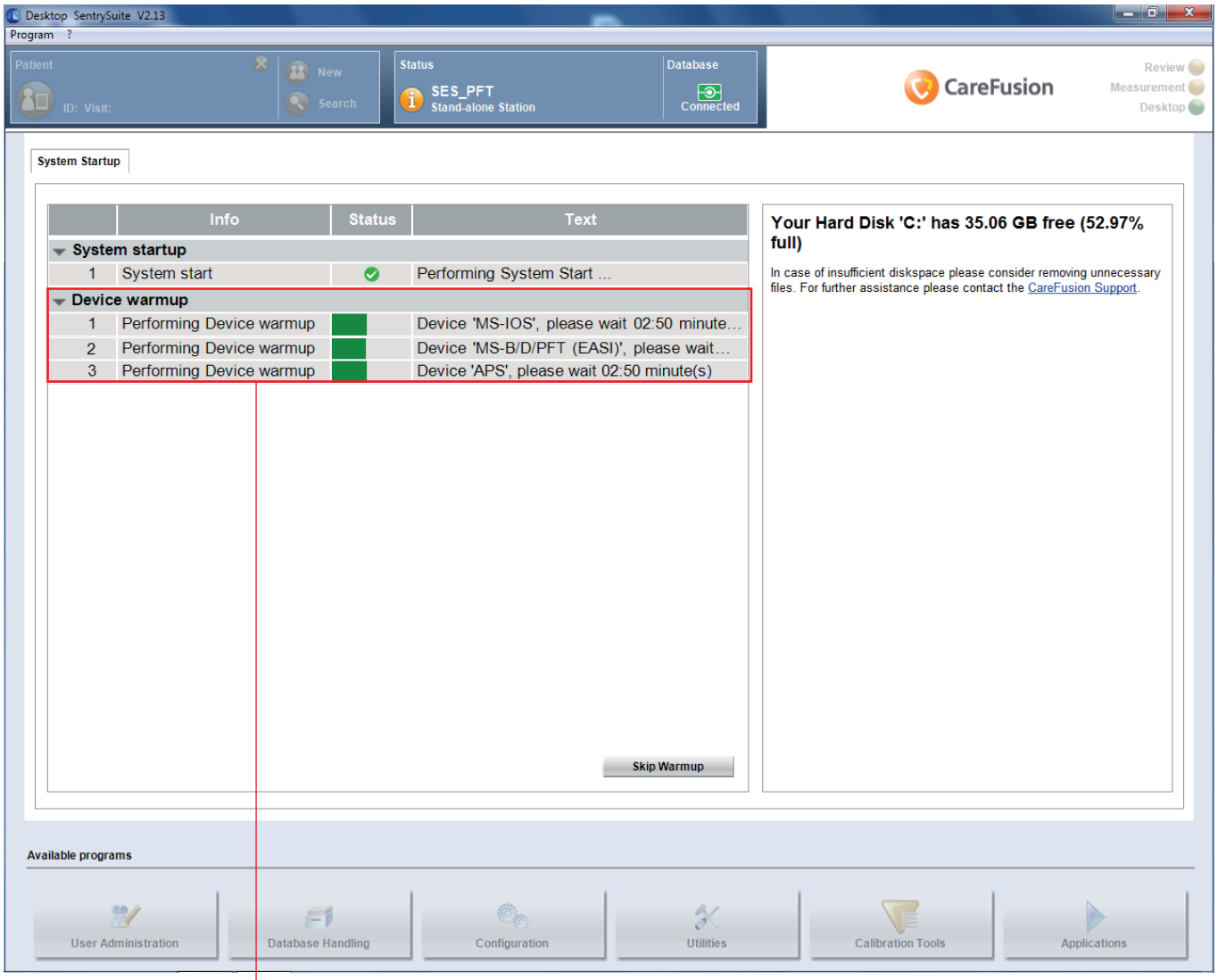
Continue with (**Next >**).

Now, the initial configuration is complete and SentrySuite Desktop is started automatically if the system does not use a network database. See chapter "**Start SentrySuite**".

Start SentrySuite®

After the program has been started, a self-test is automatically performed verifying that all hardware modules connected to the system are functioning correctly.

The following appears on the screen:



The system now verifies that all hardware modules connected to the unit are functioning correctly. For the MasterScreen Pneumo for example, the connection to the digital handle (DH) is checked.

Time	*System MasterScreen*	*System Vyntus*
5 minutes	MasterScreen Pneumo, MasterScreen IOS, APS	Vyntus Spiro, Vyntus Pneumo, Vyntus IOS, Vyntus APS
15 minutes	MasterScreen Body, MasterScreen Body/Diff, MasterScope Body	Vyntus CPX
45 minutes	MasterScreen PFT, MasterScreen Diffusion (RT), MasterScreen Body/Diffusion (RT)	

The start screen/desktop will now be automatically displayed:

Important Email Addresses and Phone Numbers

Europe - Hoechberg, Germany

Global Customer Support:
(Hotline Respiratory Diagnostics):
support.RT.EU.JAE@carefusion.com +49 931 4972-127

Administration:
support.admin.eu@carefusion.com +49 931 4972-867

Clinical Integration Services:
support.connect.EU@carefusion.com +49 931 4972-672

Accessories/Consumables: +49 931 4972-365

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